WEST

Generate Collection | Print

**Search Results** - Record(s) 1 through 20 of 25 returned.

☐ 1. Document ID: US 20020161176 A1

L1: Entry 1 of 25 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161176
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161176 A1

TITLE: Formation and anion-exchange of crystalline echinocandin ammonium salts

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Dalder, Brian Weston | West Lafayette | IN | US | |
| Dotlich, Michael Anthony | Lafayette | IN | US | |
| Kallman, Neil John | Lafayette | IN | US | |
| Larsen, Samuel Dean | West Lafayette | IN | US | |
| Van Den Berghe Snorek, Sharon | Lafayette | IN | US | |
| Vicenzi, Jeffrey Thomas | Brownsburg | IN | US | |

US-CL-CURRENT: 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Image

☐ 2. Document ID: US 20020160942 A1

L1: Entry 2 of 25 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020160942
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020160942 A1

TITLE: Echinocandin/carbohydrate complexes

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Larew, Larry Arnold | Zionsville | IN | US | |
| Milton, Nathaniel | Indianapolis | IN | US | |
| Sabatowski, James Lawrence | Holland | MI | US | |
| Moder, Kenneth Philip | West Lafayette | IN | US | |

US-CL-CURRENT: 514/8; 514/23, 514/9, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 3. Document ID: US 20020151474 A1

L1: Entry 3 of 25 File: PGPB Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151474
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020151474 A1

TITLE: Processes for making pharmaceutical oral ECB formulations and compositions

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Schwier, John Richard | Brownsburg | IN | US | |
| Taylor, Jerry | Indianapolis | IN | US | |

US-CL-CURRENT: 514/9; 264/5, 514/23

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 4. Document ID: US 20020103161 A1

L1: Entry 4 of 25 File: PGPB Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103161
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020103161 A1

TITLE: Novel heterocycles

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---|---|---|---|---|
| Weigele, Manfred | Cambridge | MA | US | |
| Luke, George P. | Clinton | CT | US | |
| Sawyer, Tomi K. | Southborough | MA | US | |
| Bohacek, Regine | Boston | MA | US | |
| Shakespeare, William C. | Framingham | MA | US | |
| Sundaramoorthi, Rajeswari | Watertown | MA | US | |
| Wang, Yihan | Newton | MA | US | |
| Dalgarno, David C. | Brookline | MA | US | |
| Metcalf, Chester A. III | Boston | MA | US | |
| Vu, Chi B. | Arlington | MA | US | |
| Kawahata, Noriyuki H. | Medford | MA | US | |

US-CL-CURRENT: 514/79; 544/232

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 5. Document ID: US 6384013 B1

L1: Entry 5 of 25 File: USPT May 7, 2002

US-PAT-NO: 6384013
DOCUMENT-IDENTIFIER: US 6384013 B1

TITLE: Cyclic peptide antifungal agents and process for preparation thereof

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Burkhardt; Frederick J. | Indianapolis | IN | | |
| Debono; Manuel | Indianapolis | IN | | |
| Nissen; Jeffrey S. | Indianapolis | IN | | |
| Turner, Jr.; William W. | Bloomington | IN | | |

US-CL-CURRENT: 514/11; 514/2, 514/9, 530/317, 530/329

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 6. Document ID: US 6323176 B1

L1: Entry 6 of 25 File: USPT Nov 27, 2001

US-PAT-NO: 6323176
DOCUMENT-IDENTIFIER: US 6323176 B1

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jamison; James Andrew | Indianapolis | IN | | |
| Rodriguez; Michael John | Indianapolis | IN | | |
| Vasudevan; Venkatraghavan | Indianapolis | IN | | |

US-CL-CURRENT: 514/7; 514/8, 514/9, 530/317, 530/322

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

☐ 7. Document ID: US 6043341 A

L1: Entry 7 of 25 File: USPT Mar 28, 2000

US-PAT-NO: 6043341

DOCUMENT-IDENTIFIER: US 6043341 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Udodong; Uko Effiong | Indianapolis | IN | | |
| Grutsch, Jr.; John Leo | Indianapolis | IN | | |
| Hansen; Marvin Martin | Indianapolis | IN | | |
| Harkness; Allen Robert | Indianapolis | IN | | |
| Verral, II; Daniel Edward | Clinton | IN | | |

US-CL-CURRENT: 530/317; 530/345, 558/152

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 8. Document ID: US 5965525 A

L1: Entry 8 of 25 File: USPT Oct 12, 1999

US-PAT-NO: 5965525
DOCUMENT-IDENTIFIER: US 5965525 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: October 12, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Burkhardt; Frederick J. | Indianapolis | IN | | |
| Debono; Manuel | Indianapolis | IN | | |
| Nissen; Jeffrey S. | Indianapolis | IN | | |
| Turner, Jr.; William W. | Bloomington | IN | | |

US-CL-CURRENT: 514/11; 530/310, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 9. Document ID: US 5932543 A

L1: Entry 9 of 25 File: USPT Aug 3, 1999

US-PAT-NO: 5932543
DOCUMENT-IDENTIFIER: US 5932543 A

TITLE: Cyclic peptide antifungal agents and process for preparation thereof

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Burkhardt; Frederick J. | Indianapolis | IN | | |
| Debono; Manuel | Indianapolis | IN | | |
| Nissen; Jeffrey S. | Indianapolis | IN | | |
| Turner, Jr.; William W. | Bloomington | IN | | |

US-CL-CURRENT: 514/11; 514/2, 514/9, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 10. Document ID: US 5786325 A

L1: Entry 10 of 25 File: USPT Jul 28, 1998

US-PAT-NO: 5786325
DOCUMENT-IDENTIFIER: US 5786325 A

TITLE: Cyclic peptide antifungal agents and methods of making and using

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Borromeo; Peter S. | Fishers | IN | | |
| Turner, Jr.; William W. | Bloomington | IN | | |

US-CL-CURRENT: 514/11; 514/2, 514/9, 530/317, 930/270

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 11. Document ID: US 5696084 A

L1: Entry 11 of 25 File: USPT Dec 9, 1997

US-PAT-NO: 5696084
DOCUMENT-IDENTIFIER: US 5696084 A

TITLE: Amino-lipopetide antifungal agents

DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Lartey; Paul A. | Wadsworth | IL | | |
| Li; Leping | Gurnee | IL | | |
| Klein; Larry Lewis | Lake Forest | IL | | |
| Leone; Christina Louise | Kenosha | WI | | |
| Thomas; Sheela Albert | Vernon Hills | IL | | |
| Yeung; Ming Clinton | Grayslake | IL | | |
| Degoey; David Allen | Kenosha | WI | | |
| Grampovnik; David J. | Waukegan | IL | | |

US-CL-CURRENT: 514/9; 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 12. Document ID: US 5693611 A

L1: Entry 12 of 25 File: USPT Dec 2, 1997

US-PAT-NO: 5693611
DOCUMENT-IDENTIFIER: US 5693611 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Henle; Stacy Kay | Indianapolis | IN | | |
| Turner; William Wilson | Bloomington | IN | | |

US-CL-CURRENT: 514/9; 564/158, 564/171

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 13. Document ID: US 5677423 A

L1: Entry 13 of 25 File: USPT Oct 14, 1997

US-PAT-NO: 5677423
DOCUMENT-IDENTIFIER: US 5677423 A

TITLE: Process for performing retro-aldol reaction

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Rodriguez; Michael J. | Indianapolis | IN | | |

US-CL-CURRENT: 530/345; 530/300, 530/317, 530/402, 530/406, 560/53, 562/463, 562/577, 564/169, 564/199, 568/308, 568/414

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 14. Document ID: US 5652213 A

L1: Entry 14 of 25 File: USPT Jul 29, 1997

US-PAT-NO: 5652213
DOCUMENT-IDENTIFIER: US 5652213 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: July 29, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jamison; James A. | Indianapolis | IN | | |
| Rodriguez; Michael J. | Indianapolis | IN | | |
| LaGrandeur; Lisa M. H. | Tucson | AZ | | |
| Turner; William W. | Bloomington | IN | | |
| Zweifel; Mark J. | Indianapolis | IN | | |

US-CL-CURRENT: 514/11; 514/9, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 15. Document ID: US 5646111 A

L1: Entry 15 of 25 File: USPT Jul 8, 1997

US-PAT-NO: 5646111
DOCUMENT-IDENTIFIER: US 5646111 A

TITLE: Cyclic peptide antifungal Agents

DATE-ISSUED: July 8, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Borromeo; Peter S. | Fishers | IN | | |
| Jamison; James A. | Indianapolis | IN | | |
| Rodriguez; Michael J. | Indianapolis | IN | | |
| Turner; William W. | Bloomington | IN | | |
| Vasudevan; Venkatraghaven | Indianapolis | IN | | |

US-CL-CURRENT: 514/11; 514/9, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

---

☐ 16. Document ID: US 5629290 A

L1: Entry 16 of 25 File: USPT May 13, 1997

US-PAT-NO: 5629290
DOCUMENT-IDENTIFIER: US 5629290 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| LaGrandeur; Lisa M. H. | Tucson | AZ | | |
| Rodriguez; Michael J. | Indianapolis | IN | | |
| Zweifel; Mark J. | Indianapolis | IN | | |

US-CL-CURRENT: 514/11; 424/93.5, 514/9, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw. Desc | Image

---

☐ 17. Document ID: US 5629289 A

L1: Entry 17 of 25 File: USPT May 13, 1997

US-PAT-NO: 5629289
DOCUMENT-IDENTIFIER: US 5629289 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Rodriguez; Michael J. | Indianapolis | IN | | |

US-CL-CURRENT: 514/11; 514/9, 530/317, 530/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw. Desc | Image

---

☐ 18. Document ID: US 5618787 A

L1: Entry 18 of 25 File: USPT Apr 8, 1997

US-PAT-NO: 5618787
DOCUMENT-IDENTIFIER: US 5618787 A

TITLE: Cyclic peptide antifungal agents

DATE-ISSUED: April 8, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Jamison; James A. | Indianapolis | IN | | |
| Rodriguez; Michael J. | Indianapolis | IN | | |

US-CL-CURRENT: 514/11; 424/93.5, 514/9, 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw. Desc | Image

---

☐ 19. Document ID: US 5387670 A

L1: Entry 19 of 25 File: USPT Feb 7, 1995

US-PAT-NO: 5387670
DOCUMENT-IDENTIFIER: US 5387670 A

TITLE: Antibiotic, deoxymulundocandin, a process for its production and its use as medicament

DATE-ISSUED: February 7, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Roy; Kirity | Bombay | | | IN |
| Mukhopadhyay; Triptikumar | Bombay | | | IN |
| Fehlhaber; Hans-Wolfram | Idstein | | | DE |
| Kogler; Herbert | Kelkheim | | | DE |
| Ganguli; Bimal N. | Bombay | | | IN |

US-CL-CURRENT: 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 20. Document ID: US 5386009 A

L1: Entry 20 of 25 File: USPT Jan 31, 1995

US-PAT-NO: 5386009
DOCUMENT-IDENTIFIER: US 5386009 A

TITLE: Lipopeptide derivatives

DATE-ISSUED: January 31, 1995

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Hammond; Milton L. | Somerville | NJ | | |
| Schwartz; Robert E. | Westfield | NJ | | |
| Balkovec; James M. | North Plainfield | NJ | | |

US-CL-CURRENT: 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

Generate Collection | Print

| Terms | Documents |
|---|---|
| mulundocandin | 25 |

**Display Format:** - Change Format

Previous Page Next Page

WEST

Help | Logout | Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

**Search Results -**

| Terms | Documents |
|---|---|
| mulundocandin | 25 |

**Database:** US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

**Search:** L1

Refine Search

Recall Text | Clear

## Search History

**DATE: Friday, November 29, 2002** Printable Copy Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR* | | | |
| L1 | mulundocandin | 25 | L1 |

END OF SEARCH HISTORY

WEST

**End of Result Set**

Generate Collection Print

L4: Entry 2 of 2 File: USPT Nov 27, 2001

DOCUMENT-IDENTIFIER: US 6323176 B1
TITLE: Cyclic peptide antifungal agents

Brief Summary Text (4):
A number of naturally occurring cyclic peptides are known in the art including echinocandin B (A30912A), aculeacin, mulundocandin, sporiofungin, L-671,329, and S31794/F1. In general, these cyclic peptides may be structurally characterized as a cyclic hexapeptide core (or nucleus) with an acylated amino group on one of the core amino acids. This acyl group is typically a fatty acid moiety forming a side chain off the nucleus. For example, echinocandin B has a linoleoyl side chain while aculeacin has a palmitoyl side chain.

Brief Summary Text (90):
A naturally occurring cyclic peptide of formula II(a) may be deacylated using procedures known in the art to provide an amino nucleus of formula II(b). This reaction is typically carried out enzymatically by exposing the naturally occurring cyclic peptide to a deacylase enzyme. The deacylase enzyme may be obtained from the microorganism Actinoplanes utahensis and used substantially as described in U.S. Pat. Nos. 4,293,482 and 4,304,716, the teachings of each are herein incorporated by reference. The deacylase enzyme may also be obtained from the Pseudomonas species. Deacylation may be accomplished using whole cells of Actinoplanes utahensis or Pseudomonas or the crude or purified enzyme thereof or using an immobilized form of the enzyme. See European Patent Application No. 0 460 882 (Dec. 11, 1991). Examples of naturally occurring cyclic peptides which may be used as starting materials include aculeacin (palmitoyl side chain), tetrahydroechinocandin B (stearoyl side chain), mulundocandin (branched C.sub.15 side chain), L-671,329 (C.sub.16 branched side chain), S 31794/F1 (tetradecanoyl side chain), sporiofungin (C.sub.15 branched side chain), FR901379 (palmitoyl side chain) and the like. A preferred naturally occurring cyclic peptide is echinocandin B (a compound of formula II(a) where R.sup.1, R.sup.2 and R.sup.3 are each methyl, R, R.sup.11', and R.sup.11' are hydroxy at each occurrence, and R.sup.nat is linoleoyl).

Brief Summary Text (97):
A commercially available compound of formula VI may have its hydroxy group(s) activated for nucleophilic displacement by standard techniques known in the art. For example, the hydroxy group can be sulfonylated with methane-benzene-, or p-toluene-sulfonyl chloride (or bromide) to provide a compound of formula VII where Lg is OSO.sub.2 Me, OSO.sub.2 -phenyl, or OSO.sub.2 -p-toluenyl. An example of this transformation is illustrated in Preparation 1 below. At this point, the leaving group can be displaced by azide ion, e.g., from sodium or potassium azide as in Preparation 2. Alternatively, the leaving group can be displaced by iodide ion from, e.g., sodium or potassium iodide as in Preparation 3. The resulting compound of formula VIII may be reduced to form a compound of formula IX where one or more of R.sup.7, R.sup.7', or R.sup.7" is amino or hydrogen by catalytic hydrogenation or with a reducing agent such as nickel chloride hexahydrate as described in Preparation 4 and Example 41 below. It is preferred that when an amino group is desired in the final product compound of formula I, that any azido groups be converted to amino groups after coupling to the compound of formula II(a).

Detailed Description Text (65):
A 25 mL round bottom flask was charged with the compound of Example 34 (52.5 mg, 0.04 mmol) and nickel chloride hexahydrate (54.5 mg, 0.229 mmol) in 5 mL of anhydrous methanol at 0.degree. C. Sodium borohydride (27.1 mg, 0.72 mmol) was then added to the reaction mixture. The reaction was raised to room temperature and allowed to stir for 2 hours. The reaction was quenched with 2 drops of 1M aqueous hydrochloric acid. The

reaction mixture was filtered and the product was isolated via reverse phase HPLC to yield 20.6 mg of the title compound as a white solid. (40.0%). HRMS(FAB) calculated for C.sub.64 H.sub.85 N.sub.8 O.sub.19 (M+H): 1269.5949. Found: 1269.5931.

WEST

Generate Collection | Print

**Search Results** - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5684128 A

L7: Entry 1 of 2 File: USPT Nov 4, 1997

US-PAT-NO: 5684128
DOCUMENT-IDENTIFIER: US 5684128 A

TITLE: Process for preparing side chain derivatives of cyclohexapeptidyl lipopeptides

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Balkovec; James M. | North Plainfield | NJ | | |
| Bouffard; Frances A. | Scotch Plains | NJ | | |
| Dropinski; James F. | Piscataway | NJ | | |
| Adefarati; Akinlolu A. | Woodbridge | NJ | | |
| Tkacz; Jan S. | Piscataway | NJ | | |

US-CL-CURRENT: 530/317

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 2. Document ID: US 5646245 A

L7: Entry 2 of 2 File: USPT Jul 8, 1997

US-PAT-NO: 5646245
DOCUMENT-IDENTIFIER: US 5646245 A

TITLE: Process for preparing side chain derivatives of cyclohexapeptidyl lipopeptides

DATE-ISSUED: July 8, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---|---|---|---|---|
| Balkovec; James M. | North Plainfield | NJ | 07063 | |
| Bouffard; Frances A. | Scotch Plains | NJ | 07076 | |
| Dropinski; James F. | Piscataway | NJ | 08854 | |
| Adefarati; Akinlolu A. | Woodbridge | NJ | 07095 | |
| Tkacz; Jan S. | Piscataway | NJ | 08854 | |

US-CL-CURRENT: 530/317; 930/270, 930/DIG.546, 930/DIG.548

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC
Draw Desc | Image

Generate Collection | Print

| Terms | Documents |
|---|---|
| antibiotic and lipopeptide and peptides and raney and nickel | 2 |

**Display Format:** - Change Format

Previous Page Next Page

WEST

**End of Result Set**

Generate Collection Print

L7: Entry 2 of 2 File: USPT Jul 8, 1997

DOCUMENT-IDENTIFIER: US 5646245 A
TITLE: Process for preparing side chain derivatives of cyclohexapeptidyl lipopeptides

Abstract Text (1):
An improved process for the preparation of side chain derivatives of cyclohexapeptidyl lipopeptides represented by the formula ##STR1## wherein R.sup.1 is fully defined, is disclosed.

Brief Summary Text (2):
The present invention is directed to an improved process for the preparation of side chain derivatives of certain amine-containing cyclohexapeptidyl lipopeptides. These side chains are attached at the .alpha.-amino-nitrogen of the 1-[hydroxyornithine] residue of the cyclohexapeptide which can be represented by the formula (SEQ ID NO. 1) ##STR2## wherein R.sup.1 is hereinafter fully defined.

Brief Summary Text (3):
Previously, side chain derivatives of these amine-containing lipopeptides have been prepared via a deacylation-reacylation sequence followed by the chemical conversion of the 3-hydroxyglutamine residue to a 3-hydroxyomithine residue. This scheme, however, provides very low yields and requires optimization for each derivative.

Brief Summary Text (29):
Other hydride reducing agents such as Raney nickel, sodium cyanoborohydride, aluminum hydride, diborane, diisobutyl aluminum hydride and the like also may be used. Frequently these reducing agents are used in combination with a Lewis acid such as cobaltous chloride or aluminum chloride as in the present combination of sodium borohydride and cobaltous chloride.

Brief Summary Text (41):
The compounds produced by the process of the invention are useful as an antibiotic, especially as an antifungal or antiprotozoal agent. As antifungal agents they are useful for the control of both filamentous fungi and yeasts. They are especially adaptable to be employed for the treatment of mycotic infections in mammals, especially those caused by Candida species such as C. albicans, C. tropicalis and C. pseudotropicalis, Cryptococcus species such as C. neoformans and Aspergillus species such as A. fumigatus, A. flavus, A. niger. They are also useful for the treatment and/or prevention of Pneumocystis carinii pneumonia to which immune compromised patients are especially susceptible.

Detailed Description Text (10):
Purification of Compound C began by the addition of 45 mL of 10% aqueous trifluoroacetic acid to 900 mL of the supernatant obtained above. The solution was filtered to remove particulate matter then purified by reverse phase chromatography (DELTA PAK C-18, 45.times.300 mm radial-pack column packed in 100% water containing 0.1% trifluoroacetic acid, 50 mL/min, .lambda.=230 nm). The appropriate fractions, as determined by analytical HPLC (ZORBAX Rx-C18, 2.5% aqueous acetonitrile/0.1% trifluoroacetic acid, 1 mL/min, .lambda.=210 nm), were pooled and lyophilized. An identical purification on the remaining 900 mL of supernatant gave material that was combined with material from the first purification to give a total of 1.3 g of deacylated lipopeptide. FAB-MS (M+H) m/z 856; .sup.1 H NMR (400 MHz, CD.sub.3 OD) .delta.7.12 (d), 6.77 (d), 5.23 (d), 5.02 (d), 3.17 (m), 3.05 (t), 1.29 (d).

Detailed Description Paragraph Table (1):

| | | SEQUENCE |
|---|---|---|

LISTING (1) GENERAL INFORMATION: (iii) NUMBER OF SEQUENCES: 6 (2) INFORMATION FOR SEQ ID NO:1: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: XaaThrXaaXaaXaaXaa 15

---

Other Reference Publication (1):
Schwartz, et al. J. Antibiotics, 45(12), pp. 1853-1866 (1992).

WEST

Generate Collection Print

L7: Entry 1 of 2 File: USPT Nov 4, 1997

DOCUMENT-IDENTIFIER: US 5684128 A
TITLE: Process for preparing side chain derivatives of cyclohexapeptidyl lipopeptides

Abstract Text (1):
An improved process for the preparation of side chain derivatives of cyclohexapeptidyl lipopeptides represented by the formula ##STR1## wherein R.sup.1 is fully defined, is disclosed.

Brief Summary Text (2):
The present invention is directed to an improved process for the preparation of side chain derivatives of certain amine-containing cyclohexapeptidyl lipopeptides. These side chains are attached at the .alpha.-amino-nitrogen of the 1-[hydroxyornithine] residue of the cyclohexapeptide which can be represented by the formula (SEQ ID NO. 1) ##STR2## wherein R.sup.1 is hereinafter fully defined.

Brief Summary Text (3):
Previously, side chain derivatives of these amine-containing lipopeptides have been prepared via a deacylation-reacylation sequence followed by the chemical conversion of the 3-hydroxyglutamine residue to a 3-hydroxyornithine residue. This scheme, however, provides very low yields and requires optimization for each derivative.

Detailed Description Text (18):
Other hydride reducing agents such as Raney nickel, sodium cyanoborohydride, aluminum hydride, diborane, diisobutyl aluminum hydride and the like also may be used. Frequently these reducing agents are used in combination with a Lewis acid such as cobaltous chloride or aluminum chloride as in the present combination of sodium borohydride and cobaltous chloride.

Detailed Description Text (30):
The compounds produced by the process of the invention are useful as an antibiotic, especially as an antifungal or antiprotozoal agent. As antifungal agents they are useful for the control of both filamentous fungi and yeasts. They are especially adaptable to be employed for the treatment of mycotic infections in mammals, especially those caused by Candida species such as C. albicans, C. tropicalis and C. pseudotropicalis, Cryptococcus species such as C. neoformnans and Aspergillus species such as A. fumigatus, A. flayus, A. niger. They are also useful for the treatment and/or prevention of Pneumocystis carinii pneumonia to which immune compromised patients are especially susceptible.

Detailed Description Text (38):
Purification of Compound C began by the addition of 45 mL of 10% aqueous trifluoroacetic acid to 900 mL of the supernatant obtained above. The solution was filtered to remove particulate matter then purified by reverse phase chromatography (DELTA PAK C-18, 45.times.300 mm radial-pack column packed in 100% water containing 0.1% trifluoroacetic acid, 50 mL/min, .lambda.=230 nm). The appropriate fractions, as determined by analytical HPLC (ZORBAX Rx-C18, 2.5% aqueous acetonitrile/0.1% trifluoroacetic acid, 1 mL/min, .lambda.=210 nm), were pooled and lyophilized. An identical purification on the remaining 900 mL of supernatant gave material that was combined with material from the first purification to give a total of 1.3 g of deacylated lipopeptide. FAB-MS (M+H) m/z 856; .sup.1 H NMR (400 MHz, CD.sub.3 OD) .delta.7.12 (d), 6.77 (d), 5.23 (d), 5.02 (d), 3.17 (m), 3.05 (t), 1.29 (d).

Detailed Description Paragraph Table (1):

SEQUENCE LISTING (1) GENERAL INFORMATION: (iii) NUMBER OF SEQUENCES: 6 (2) INFORMATION FOR SEQ

ID NO:1: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: XaaThrXaaXaaXaaXaa 15 (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: circular (ii) MOLECULE TYPE: peptide (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: XaaThrXaaXaaXaaXaa 15

---

Other Reference Publication (1):
Schwartz et al, The Journal of Antibiotics, vol. 45(12), pp. 1853-1866, (Dec., 1992).

WEST

Help | Logout | Interrupt

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

**Search Results -**

| Terms | Documents |
|---|---|
| antibiotic and lipopeptide and peptides and raney and nickel | 2 |

**Database:** US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

**Search:** L7

Refine Search

Recall Text | Clear

**Search History**

**DATE: Friday, November 29, 2002** Printable Copy Create Case

| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| *DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR* | | | |
| L1 | mulundocandin | 25 | L1 |
| L2 | mulundocandin and ni | 0 | L2 |
| L3 | mulundocandin and raney | 0 | L3 |
| L4 | mulundocandin and nickel | 2 | L4 |
| L5 | raney and nickel | 17314 | L5 |
| L6 | peptides and raney and nickel | 1859 | L6 |
| L7 | antibiotic and lipopeptide and peptides and raney and nickel | 2 | L7 |

END OF SEARCH HISTORY